

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01057

| A. CLASSIFICATION OF SUBJECT MATTER | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|--|-----|---|-----|---|-----|--|-----|---|-----|--|-----|--|-----|---|-----|--|--|--|
| Int. Cl. ?: B25B 21/00, 13/00, 13/46 | | | | | | | | | | | | | | | | | | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | | | | | | | | | | | | | | | | |
| B. FIELDS SEARCHED | | | | | | | | | | | | | | | | | | | | | | |
| Minimum documentation searched (classification system followed by classification symbols) | | | | | | | | | | | | | | | | | | | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | | | | | | | | | | | | | | | | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, B25B 21/00, 13/00, 13/46, key words CAM+, ROLL+, BALL+, CONNECT+, ATTACH+, FURTHER, EXTENSION, TORQ+, RATCHET+, DRIV+ | | | | | | | | | | | | | | | | | | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | | | | | | | | | | | | | | | | | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | | | | | | | | | | | | | | | | | | | |
| A | US 5941140 A (SUKSI) 24 August 1999 Whole document | 1,2,4-7 | | | | | | | | | | | | | | | | | | | | |
| A | CA 2134689 A (DUNCAN W C) 19 April 1996. Whole document | 1,2,4-7 | | | | | | | | | | | | | | | | | | | | |
| P, A | US 2003/0010158 A (LISTL et al.) 16 January 2003 Whole document | 1,2,4-7 | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C | | <input checked="" type="checkbox"/> See patent family annex | | | | | | | | | | | | | | | | | | | | |
| <p>* Special categories of cited documents:</p> <table> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E"</td> <td>earlier application or patent but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table> | | | "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | "E" | earlier application or patent but published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art | "O" | document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family | "P" | document published prior to the international filing date but later than the priority date claimed | | |
| "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | | | | | | | | | | | | | | | | | | | |
| "E" | earlier application or patent but published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | | | | | | | | | | | | | | | | | | | |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art | | | | | | | | | | | | | | | | | | | |
| "O" | document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family | | | | | | | | | | | | | | | | | | | |
| "P" | document published prior to the international filing date but later than the priority date claimed | | | | | | | | | | | | | | | | | | | | | |
| Date of the actual completion of the international search 11 December 2003 | Date of mailing of the international search report 17 DEC 2003 | | | | | | | | | | | | | | | | | | | | | |
| Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929 | Authorized officer SARAVANAMUTHU PONNAMPALAM Telephone No : (02) 6283 2070 | | | | | | | | | | | | | | | | | | | | | |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|--|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | US 4399722 A (SARDO, Jr) 23 August 1983. Whole document | 3 |
| X | US 5148724 A (REXFORD) 22 September 1992. Whole document | 3 |
| P,X | DE 20211034 U (HOEPFINGER S) 21 November 2002 Whole document | 3 |

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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos :
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos :
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

| | |
|------------------|------------------|
| First invention | Claims 1, 2, 5-7 |
| Second invention | Claim 4 |
| Third invention | Claim 3 |

All claims are directed to a torque transmission mechanism

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are three inventions:

1. Claims 1, 2, 5-7 are directed to a torque transmission mechanism. It is considered that the rotation of the inner body relative to the outer body in a first direction is substantially unimpeded by the rollers, but rotation of the inner body in the opposite second direction is prevented or impeded by interaction of at least two rollers with said one or more cam surfaces comprises a first "special technical feature".
2. Claim 4 is directed to a torque transmission mechanism. It is considered that the rotation of the inner body relative to the outer body in a first direction is substantially unimpeded, but rotation of the inner body relative to the outer body in the opposite second direction is prevented or impeded comprises a second "special technical feature".
3. Claim 3 is directed to a torque transmission mechanism. It is considered that an attachment portion for attachment of a drive element of another tool so that the drive element of the other tool may be forced so as to impart torque to the drive element of said tool comprises a third "special technical feature".

Since the above mentioned groups of claims do not share the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept.

The second invention (claim 4) could be searched without effort justifying an additional fee; this Authority did not invite payment of additional fee.

As the search for the third invention (claim 3) will require more than a little additional effort over that for the first and second invention, an additional search fee is warranted

INTERNATIONAL SEARCH REPORT
Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in Search Report | | | Patent Family Member | | | |
|---|------------|--|---|---------------------------|--|--|
| US | 5941140 | NONE | | | | |
| CA | 2134689 | NONE | | | | |
| US | 4399722 | NONE | | | | |
| US | 5148724 | NONE | | | | |
| DE | 20211034 | DE 10218756 | | | | |
| US | 2003010158 | DE 10124569 DE 10124573 EP 1260320 | DE 10124571 EP 1258321 EP 1260322 | DE 10124572 EP 1258322 | | |

END OF ANNEX